

# Dakota County Technical College

## DENT 1110: Pre-Clinical Dental Assisting

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course will introduce the student to the health and safety considerations for basic infection control and dental emergencies. Topics will include occupational exposure risks, personal protection, exposure control, hazard communication standards, and medical waste disposal, as defined by government guidelines and regulations including OSHA standards. Special attention will be given on how to reduce the risk of transmission of disease commonly found in the dental office between dental assistants and patients, including various sterilization and disinfection techniques. This course will also discuss the prevention and treatment of medical emergencies commonly found in the dental office. The student will have a basic understanding of the classification, administration, use, and effects of drugs commonly used in a dental office. Prerequisites: Admission to Dental Assisting Program

**B. COURSE EFFECTIVE DATES:** 02/12/1998 - Present

**C. OUTLINE OF MAJOR CONTENT AREAS**

## **D. LEARNING OUTCOMES (General)**

1. Define infection control terms
2. Discuss the six different types of microorganisms
3. Research an infectious disease
4. Define sources of microorganisms
5. Define the different types of immunity
6. Describe the pathways for cross contamination
7. Describe three classifications of bacteria based on shape
8. Discuss the three basic modes of disease transmission
9. Identify types of protective barriers used in the dental office
10. Demonstrate sterilization and disinfection techniques
11. Demonstrate surface and equipment asepsis
12. Describe laboratory and radiographic asepsis
13. Identify the types of personal barriers worn in the dental office
14. List hand-washing procedure step-by-step
15. List universal precautions applications
16. Describe occupational exposure
17. Discuss components of OSHA Bloodborne Pathogens Standard
18. Discuss the exposure control plan
19. Explain the Written Hazard Communication program
20. Identify requirements, recommendations and regulations of local and state government
21. Describe types of infection and non-infectious waste management procedures
22. Discuss medical and dental histories and explain protocol for intraoral and extraoral exam
23. Discuss the office safety program, including written reports, procedures, records and documentation
24. Explain clinical protocol and the dental assistants role in an emergency
25. Identify bloodborne pathogens and other diseases
26. Identify office protocol in the event of an emergency
27. Identify required and recommended immunizations for dental personnel
28. Define asthma and explain the causes of asthma
29. Define hyperventilation and describe signs and symptoms of hyperventilation
30. Demonstrate the technique for recording each of the vital signs
31. Describe maintenance and use of a first aid kit including the use of oxygen
32. Determine cause and treatment for syncope
33. Define cerebrovascular accident and list the signs and symptoms of CVA
34. Define shock and describe the treatment of shock
35. Describe the different types of heart conditions and symptoms and treatment of heart disease
36. Identify possible allergic reactions and the treatment of an allergic patient
37. Identify signs and symptoms of angina pectoris and the preventions and treatment of angina
38. Define analgesics and discuss effects
39. Define anesthetics used in dentistry
40. Define schedules of drugs according to the Controlled Substance Act
41. Define terms defining drug effects and actions
42. Describe proper drug storage
43. Discuss injection types and the dental assistants role in administration
44. Explain protocol and first aid for a needle stick

45. Identify names and administration of medical emergency drugs used in the dental office
46. List occupational hazards that can occur in the dental office
47. List parts of a prescription
48. List the major routes of drug administration
49. Recognize the responsibility a dental assistant has in reducing drug abuse

**E. Minnesota Transfer Curriculum Goal Area(s) and Competencies**

None

**F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted